

Title of the Invention

TUNABLE HIGH-FREQUENCY FILTER ARRANGEMENT AND METHOD FOR
THE PRODUCTION THEREOF

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BACKGROUND OF THE INVENTION

Field of the Invention

10 The invention relates to the field of radio-frequency
engineering. It relates in particular to a tunable
radio-frequency filter arrangement and to a method for its
production.

15 A radio-frequency filter arrangement of this type is known,
for example, from US PATENT NO. 6,147,577.

A single tunable dielectric resonator, in which the moving
dielectric body can move linearly in the vertical or
20 horizontal direction in a cutout in the dielectric
resonator element is known, by way of example, from EP-A1-0
601 369.

Description of the Related Art

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Transportable radio link connections (LOS=Line of Sight)
have been proven for rapid and flexible construction of
wire-free communication networks, in particular in rugged
terrain without a suitable infrastructure, and these
30 operate in the frequency range of two or more GHz (for
example 4.4 to 5 GHz; or 14.62 to 15.23 GHz). Appropriate
filters, in particular bandpass filters, are required for
signal processing within the transmission and reception
arrangements for such directional radio links, which
35 filters are designed not only for individual frequencies